DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

# NOTICE OF ACCEPTANCE (NOA)

Sprung Instant Structures, Inc. 5711 West Damon Way West Jordan, UT 84088

### Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

#### **DESCRIPTION:** Seaman and Herculite Architectural Fabric Membranes

**APPROVAL DOCUMENT:** Drawing No. P11-147, titled "Hurricane Test Panel" dated June 29, 2011, sheets 147.0 through 147.3, prepared by Steven B. Brown, P.E., signed and sealed by Steven B. Brown, P.E., on April 12, 2013, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

# MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each structure shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises & renews NOA # 03-0407.04 and consists of this page 1, evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

He GA. Nelso 04/25/2013

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

MIAMI-DADE COUNTY
APPROVED

NOA No. 12-0322.03

**Expiration Date: 04/25/2018 Approval Date: 04/25/2013** 

Page 1

# Sprung Instant Structures, Inc.

# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

# 1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 03-0407.04

#### A. DRAWINGS

1. Drawings No. P05064.0, P05064.1, & P05064.2, titled "Hurricane Test", dated March 31, 2005, last revision #3 dated February 27, 2006, three sheets, prepared by Steven B. Brown, P.E., signed and sealed by Steven B. Brown, P.E.

#### B. TESTS

1. Test Report No. 0323-1208-03, dated February 18, 2004, prepared by Hurricane Test Laboratory, Inc., on Large Missile Impact Test, TAS 201, Cyclic Wind Pressure Test, TAS 203, and Static Wind Pressure Test, TAS 202, signed and sealed by Vinu J. Abraham, P.E.

### C. CALCULATIONS

1. Calculations titled "Dade County Hurricane Testing Membrane Calculations" prepared by Steven B. Brown & Associate, dated May 24, 2005, 2 sheets, signed and sealed by Steven B. Brown, P.E.

# D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

### E. MATERIAL CERTIFICATIONS

1. See material Specifications on the approved drawings.

#### 2. NEW EVIDENCE SUBMITTED

### A. DRAWINGS:

1. Drawing No. P11-147, titled "Hurricane Test Panel" dated June 29, 2011, sheets 147.0 through 147.3, prepared by Steven B. Brown, P.E., signed and sealed by Steven B. Brown, P.E., on April 12, 2013.

#### B. TESTS:

1. Test Report No. 0323-0604-11, dated October 24, 2011, prepared by Hurricane Test Laboratory, Inc., on Large Missile Impact Test, TAS 201, Cyclic Wind Pressure Test, TAS 203, and Static Wind Pressure Test, TAS 202, signed and sealed by Vinu J. Abraham, P.E.

### C. CALCULATIONS:

1. Calculations titled "Dade County Hurricane Testing Membrane Calculations" prepared by Steven B. Brown & Associate, dated January 12, 2012, 4 sheets, signed and sealed by Steven B. Brown, P.E.

Helmy A. Makar, P.E., M.S. Product Control Unit Supervisor

NOA No. 12-0322.03

**Expiration Date: 04/25/2018 Approval Date: 04/25/2013** 

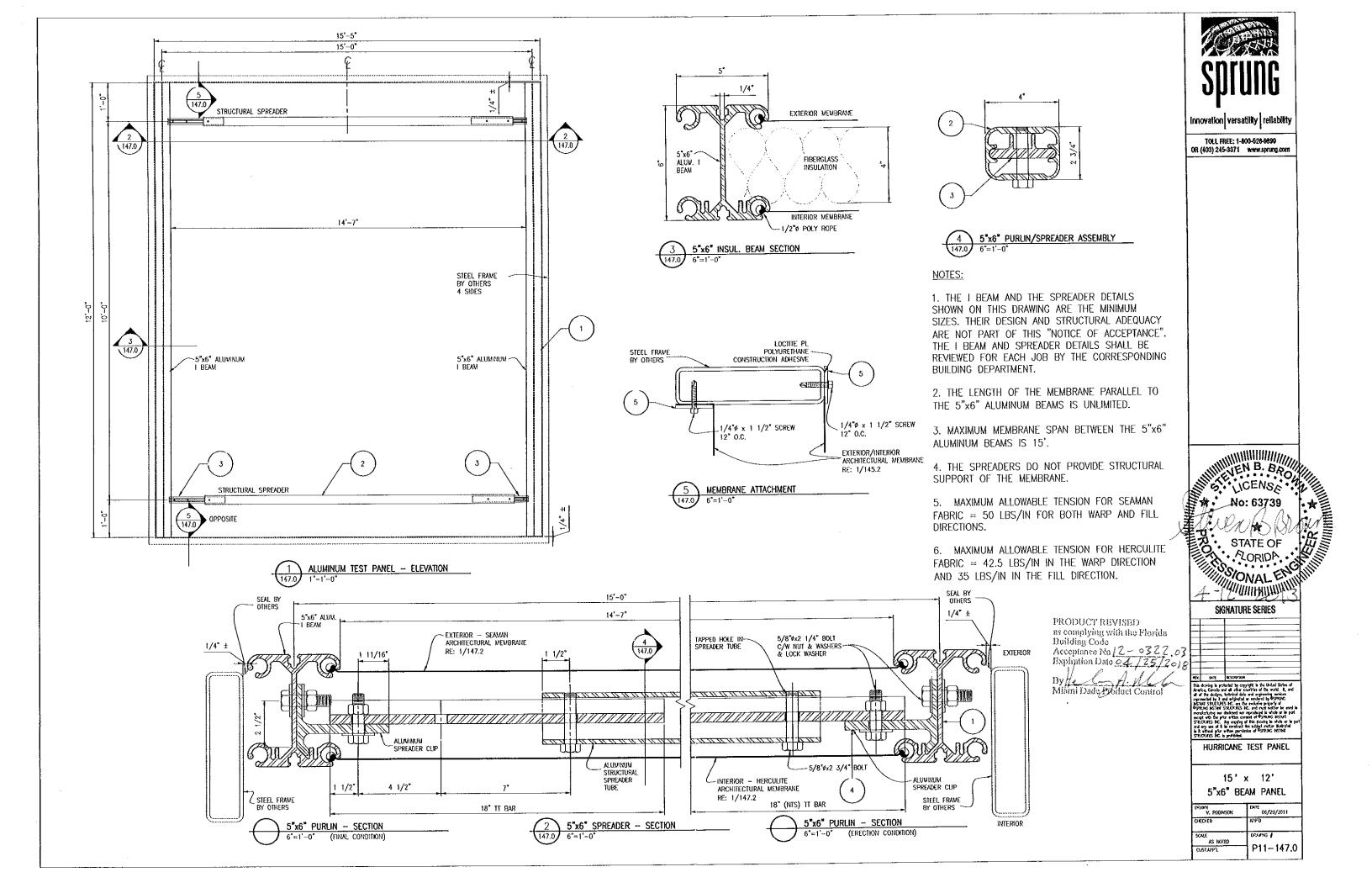
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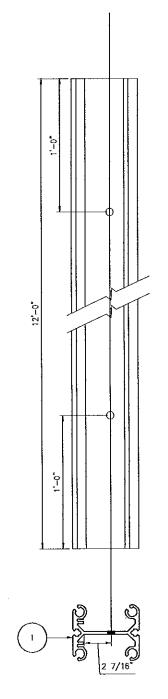
# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- D. QUALITY ASSURANCE
  - 1. By Miami-Dade County Department of Regulatory and Economic Resources.
- E. MATERIAL CERTIFICATION:
  - 1. None.
- F. OTHERS
  - 1. Letter from Steven B. Brown, Consulting Engineer, dated November 30, 2011, signed and sealed by Steven B. Brown, P.E., stating that this product in compliance with Florida Building Code, 2010 Edition.

Helmy A. Makar, P.E., M.S. Product Control Unit Supervisor NOA No. 12-0322.03

Expiration Date: 04/25/2018 Approval Date: 04/25/2013

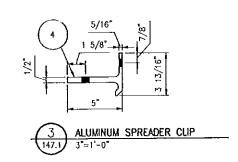


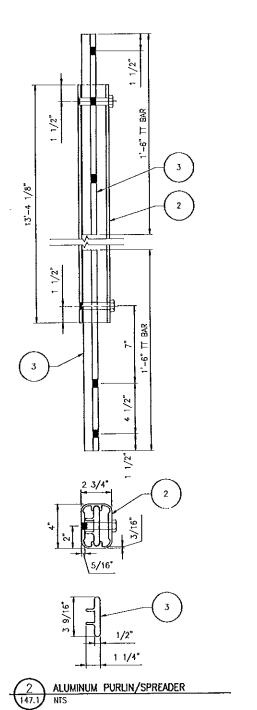


# BILL OF MATERIALS

MGTI	QTY	DESCRIPTION	SPECIFICATIONS
1	2	5"x6" ALUM. I BEAM	6351-T6
2	2	ALUMINUM SPREADER	6351-T6
3	4	18" ALUMINUM TT-BAR	6351-T6
4	4	ALUMINUM SPREADER CLIP	6351-T6
5	4	ALUM. FL 3/16"x2"x9'-6 3/4"	6081-T5

NOTE: FL = FLAT BAR





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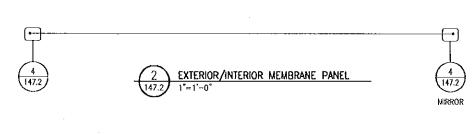
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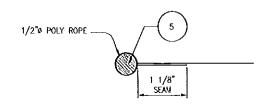
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PRODUCT RBVISED
as complying with the Florida
Building Code
Acceptance No 2-0322.03
Expiration Date 04/25/2018
By He Code
Miami Dade Product Control

AM ....





EXTERIOR/INTERIOR MEMBRANE ROPED EDGE

1" SEAM

5 EXTERIOR/INTERIOR MIDDLE SEAM
147.2 12"=1'-0"



TOLL FREE: 1-800-528-9899 OR (403) 245-3371 www.sprung.com

5 147.2

3 EXTERIOR/INTERIOR MEMBRANE PANEL

PRODUCT REVISED

as complying with the Florida

Building Code

Acceptance No 12-0322.03

Expiration Date 04-125/2018

Mount Dade Poeduct Control

EXCEL 14 WH	HERCULITE ITE OR BLACK EMBRANE	
WEIGHT	ASTM D3776	14 Oz./Sq. Yd (±5%)
FLAME RESISTANCE After Flame — Char Length —  Flame Spread Rating Smoke Development Class	ASTM D6413  NFPA 701 SMALL & LARGE ASTM E-84 SMALL & LARGE	0.4 sec. 3.5 in PASS PASS CLASS A 20 295
ADHESION	ASTM D4431	12 lbs/in
GRAB TENSILE 4"	ASTM D5034	230/215 lbs/in
STRIP TENSILE 1"	FED-STD-191A	170/140 lbs/in
TONGUE TEAR	ASTM D2261	120/122 lbs
HYDROSTATIC BURST	ASTM D751/A	380/380 psi
COLD CRACK	FED-STD-191A	-40'F
RATE OF BURN (CLASSIFICATION)	ASTM D 635	RESULT/REQUIREMENT C-1/C-1 OR C-2
SELF-IGNITION (DEGREES F)	ASTM D 1929	970/ ≥ 650
SMOKE DENSITY RATING (%)	ASTM D 2843	70/ <u>&lt;</u> 75

SPECIFICATIONS FOR MEMBRANE USED IN TEST				
ITEM	QTY	DESCRIPTION	SPECIFICATIONS	
1	1	INTERIOR MEMBRANE	HERCULITE SPECS	
2	1	INTERIOR MEMBRANE	HERCULITE SPECS	
3	1	EXTERIOR MEMBRANE	SEAMAN SPECS	
4	1	EXTERIOR MEMBRANE	SEAMAN SPECS	
5	4	1/2"ø POLY ROPE	NONE	

	— SEAMAN SHELTE RMANCE 9319 ARCH MEMBRANE	I	
Base Fabric Type		Polyester	
Base Fabric Weight (nominal)		3.2 oz/yd2	
Finished Coated Weight	ASTM D751	19 oz/yd2 +2/-1 oz/yd2	
Tongue Tear	ASTM D751	8"x10" somple @ 12 in/min. 110/110 lbf	
Tropezoid Tear	ASTM D751	35/40 lbf	
Grob Tensile	ASTM D751	260/260 lbf	
Strip Tensile	ASTM D751	200/200 lbf/in	
Adhesion Dielectric Weld	ASTM D751	10 lbf/in	
Hydrostatic Resistance	ASTM D751	350 psi	
Dead Load	ASTM D751	1.5 in seam, 4 hr, 1 in strip 100 lbf @ room temp. 50 lbf @ 160' F	
Low Temperature	ASTM D2136 LTC	Pass -40' F 1/8" mandrel, 4 hr LTAPass -67' F	
Flame Resistance	NFPA 701, and Aflameout ASTM E	fire marshal requirements, UL214, ISTM D64133 — FR Pass 2 second 84 — flame spread index <25, ent index <450, ULC_S102, ULC_S109	
RATE OF BURN (CLASSIFICATION)	ASIM D 635	RESULT/REQUIREMENT C-1/C-1 OR C-2	
SELF IGNITION (DEGREES F)	ASTM D 1929	860/ ≥ 650	
SMOKE DENSITY RATING (%)	ASTM D 2843	75/ <u>&lt;</u> 75	

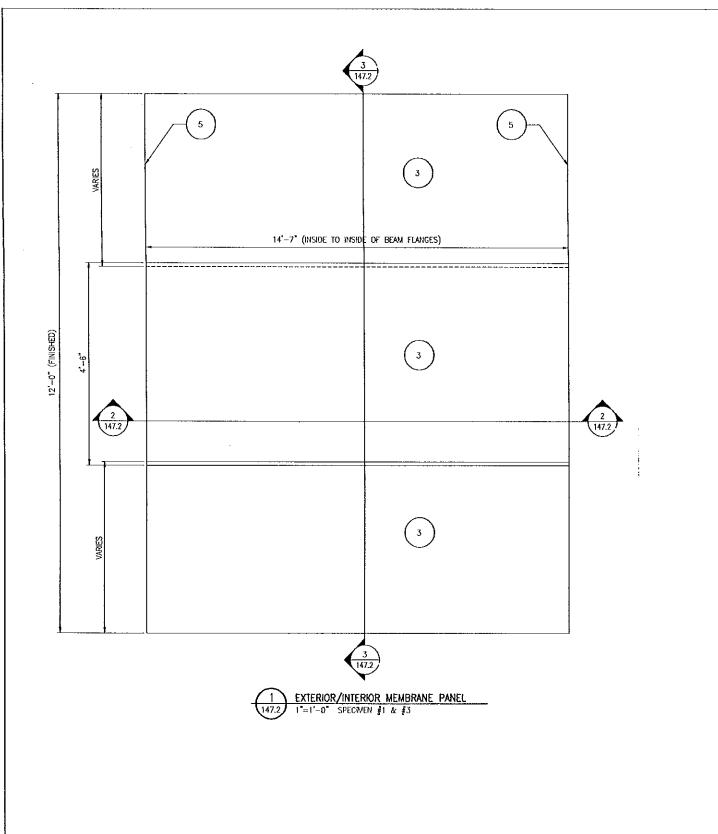
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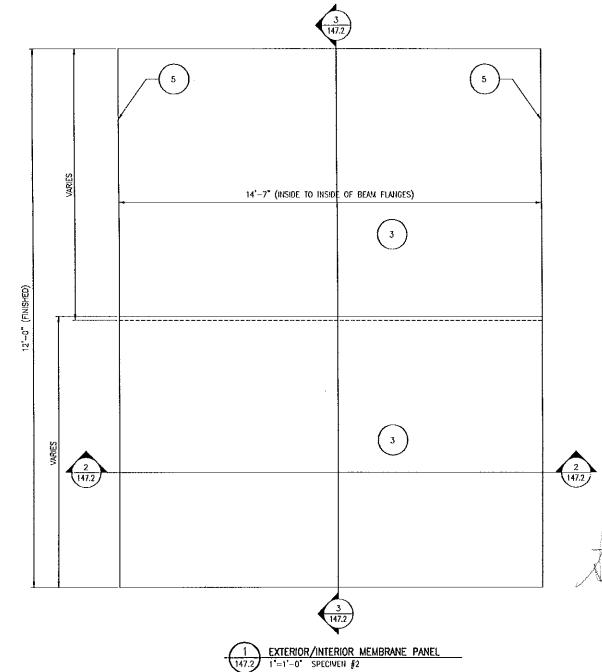
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15' × 12' MEMBRANE DETAILS

HURRICANE TEST PANEL

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